



# Irish Life MAPS®

QUARTER 3 (Q3) 2017: JULY TO SEPTEMBER

Welcome to the MAPS quarterly update for Quarter 3 2017. In this edition...

- We look back and comment on some of the key issues over the quarter, including Brexit, the strength of the euro and oil price rise.
- We outline and review the key drivers of performance within MAPS.
- We review the asset classes in more detail illustrating the wide diversification which help deliver smoother returns.
- We provide an update on some of the key strategies used to manage risk in MAPS including Global Low Volatility Shares, Dynamic Share to Cash Model (DSC), Currency Hedging and Quarterly Rebalancing.
- We outline the external managers and alternative investment strategies used in MAPS, including the changes made during the quarter.

# IRISH LIFE MAPS® FUND PERFORMANCE

Over the quarter, global stock markets continued their positive momentum (in local currency terms up but not as impressive in euro terms because of euro strength) from quarter 1 and quarter 2, supported by the improvement in economic news, better earnings and renewed hopes that some form of fiscal stimulus in the US could still be implemented. eurozone government bonds also rose in value over the quarter, although bonds were somewhat volatile through the period, influenced by speculation over the likely path of ECB policy and continuing low inflation.

The table below shows the total returns to end of quarter 3 2017 on each of the five Irish Life MAPS funds since launch (17 May 2013) and over the last 1, 2, 3 and 4 years. Irish Life MAPS is a long-term investment and we would always urge caution when looking at fund performances over time periods of less than five years.

| FUND              | MAP2 | MAP3 | MAP4  | MAP5  | MAP6  |
|-------------------|------|------|-------|-------|-------|
| SINCE LAUNCH p.a. | 4.0% | 5.7% | 7.9%  | 9.6%  | 9.0%  |
| 4 YEARS p.a.      | 4.8% | 6.9% | 9.6%  | 11.5% | 11.5% |
| 3 YEARS p.a.      | 4.5% | 6.7% | 8.9%  | 10.6% | 10.5% |
| 2 YEARS p.a.      | 5.2% | 7.8% | 10.5% | 13.0% | 15.2% |
| 1 YEAR            | 4.0% | 6.7% | 9.5%  | 12.2% | 14.2% |

Source: 'Moneymate'. Gross returns shown to 30 September 2017, before any fund management charge.

Warning: The value of your investment may go down as well as up.

Warning: If you invest in this fund you may lose some or all of the money you invest.

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Warning: Past performance is not a reliable guide to future performance.

# **ECONOMIC LOOK-BACK Q3 2017**

### IS A STRONG CURRENCY A GOOD CURRENCY?

From the start of July to the end of September (quarter 3), global share markets rose an impressive +4.5%. Unfortunately, investors based in the eurozone were only up +1.6% due to the impact of turning gains made in foreign currencies back into euro. Why so? Simply, the value of a euro has gone up against most major currencies so while you get more sterling or US dollars for each euro, the flipside is that you get less euro when converting back from sterling or dollars. This is obviously good for people taking holidays outside the eurozone or importers paying for foreign goods and services. It is not so good for people from outside the eurozone taking holidays here or exporters paid in foreign currency. Ireland is a small open economy with large tourism and exporting businesses, which are suffering currently. With Brexit potentially pushing the euro closer to parity against sterling, there may be more pain to come for certain sectors.



### WINTER OF DISCONTENT

Let's hope it's a mild winter. During quarter 3, commodities rose +7.2% but in particular, oil rose +12.2%. OPEC (Organisation of Petroleum Exporting Countries) control over 44% of global oil production and 73% of global oil reserves. They meet regularly to discuss the supply and demand balance that dictates the oil price. They suggested that existing production cuts could extend beyond March 2018 which is not good news for users. Furthermore, a slowdown in the pace of oil rig building in the US, lower oil inventories, increased demand expectations and concerns over supplies from Kurdistan and Iraq are likely to keep the price at current levels, or potentially push them higher.

### **BROKEN BREXIT**

Progress in Brexit talks between the UK and the EU has been slow. The EU are sticking to three key issues that need to be resolved – how much the UK need to pay to exit the EU based on previous commitments made, citizen's rights post Brexit and the treatment of the border between Ireland and Northern Ireland. With the current scheduled exit date of March 2019, a transitional deal is being discussed as an option to avoid a 'cliff edge' impact that neither side seem prepared for. This would provide more time in particular for the UK government but also companies and individuals to prepare for the ultimate exit. In the meantime, the protracted nature of the talks is continuing to act as a drag on the UK economy.

### SHARES, BONDS, COMMODITIES AND CURRENCIES...

The MSCI AC World share index rose +4.5% during quarter 3 (+1.6% in euro). The US stock market was also up +4.5% (+0.8% in euro) while the eurozone and emerging markets posted strong returns up +4.7% and +7.7% (+4.2% in euro) respectively. The Japanese share market was up +1.6% (-2.14% in euro), the UK rose +1.8% (+1.5% in euro) and the Pacific region was up +2.2% (+0.04% in euro). In bond markets, the eurozone >5 year sovereign bond benchmark rose +0.8% despite German 10 year bond yields remaining largely unchanged at just +0.46%.

In currency markets, the euro rose from 1.14 to 1.18 against the US dollar driven primarily by speculation over tighter ECB monetary policy and reduced expectations over the speed of US interest rate increases.

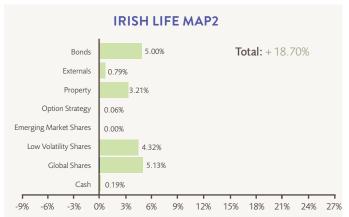
Commodities rose +7.2% (+3.4% in euro) with WTI oil up 12.2% as OPEC suggested it might extend oil production cuts beyond March next year.

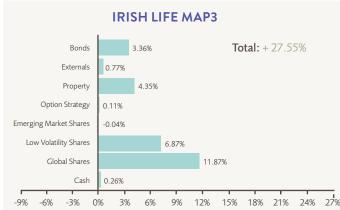
Source: David Haslam, Head of Retail, Irish Life Investment Managers (ILIM), 30 September 2017.

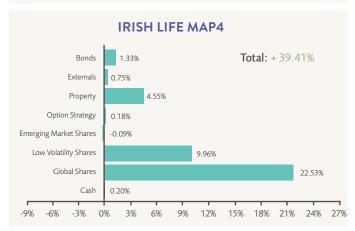
# PERFORMANCE BREAKDOWN

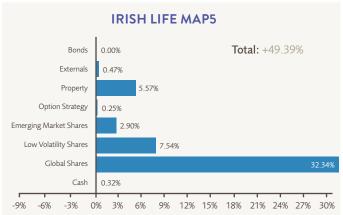
The graphs below split out the performance for each Irish Life MAPS fund since Launch (17 May 2013) to 30 September 2017 into each of the component asset classes. For more on these asset classes see pages 8-11.

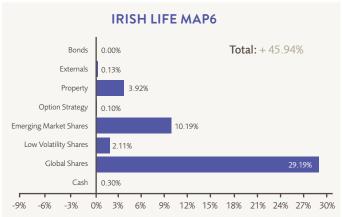
Taking Irish Life MAP 3 as an example, it is up 27.55% over this period. This 27.55% can be broken down as shown below - with 11.87% coming from Global Shares, 6.87% from Low Volatility Shares, 3.36% from Bonds, 4.35% from Property, 0.26% from Cash, 0.77% from External Managers, -0.04% from Emerging Market Shares and 0.11% from the Option Strategy recently introduced.











Source: ILIM 30 September 2017

The data above is based on 'Moneymate' fund performance and the breakdown of the individual asset class returns is approximate. Performance is before taxes and charges. The data above allows for the relevant asset splits and the effect of the annual reviews of the funds over that period - some examples: the move from Minimum Volatility Shares to Low Volatility Shares, the changes in External Managers, the move from Developed Market Shares to Global Shares and more recent changes such as the introduction of the Option Strategy and High Yield Bonds. It also allows for the impact of tactical allocation changes over the period.

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# **IRISH LIFE MAPS® ASSET SPLIT**

There are five Irish Life MAPS funds to suit different attitudes to risk. The table below shows the strategic asset mix for each of the funds. As you can see the lower risk fund Multi Asset Portfolio 2 (MAP2) has a very high percentage in bonds and cash, which are traditionally less volatile assets. The higher risk fund MAP6 is predominantly invested in shares, which are traditionally more volatile than bonds or cash but have, in the past, given better long-term returns.

Warning: Past performance is not a reliable guide to future performance.

| FUND NAME                      | MAP2  | MAP3  | MAP4  | MAP5  | MAP6  |
|--------------------------------|-------|-------|-------|-------|-------|
| Bonds                          | 42.0% | 25.5% | 10.5% | 0.0%  | 0.0%  |
| External Managers/Alternatives | 22.0% | 22.0% | 22.0% | 12.5% | 5.0%  |
| Property                       | 6.0%  | 7.5%  | 7.5%  | 7.5%  | 5.0%  |
| Emerging Market Shares         | 0.0%  | 0.0%  | 0.0%  | 10.0% | 32.0% |
| Low Volatility Shares          | 6.0%  | 12.0% | 18.0% | 13.0% | 8.0%  |
| Global Shares*                 | 11.0% | 22.0% | 33.0% | 45.0% | 45.0% |
| Option Strategy                | 3.0%  | 6.0%  | 9.0%  | 12.0% | 5.0%  |
| Cash                           | 10.0% | 5.0%  | 0.0%  | 0.0%  | 0.0%  |

<sup>\*</sup> Global Shares use the DSC model - See pages 7 and 8 for more details.

The table shows the strategic asset mix and ILIM rebalance back to this mix on a quarterly basis. The information is correct as at 30 September 2017. For the latest Irish Life MAPS fund mixes, see the factsheet at www.irishlife.ie.

ILIM will continue to monitor and review these assets and may change them over time.

# IRISH LIFE MAPS RISK MANAGEMENT

## Irish Life MAPS® Diversification

As the table above shows each of the Irish Life MAPS funds is diversified across a range of asset types - shares, bonds, property, cash and external managers / alternatives.

Within each of these different asset types, there is even further diversification. For example, within the share asset class there is an allocation to Global Shares, Low Volatility Shares and an Option Strategy, each of which generates a return in a different way. Global Shares aim to capture the movement in share markets across the developed and emerging markets. The Low Volatility strategy invests in shares with certain characteristics that aim to deliver a smoother journey, while the Option Strategy aims to generate a more stable return through the regular sale of put options which provides some downside protection if markets fall, and for which the funds get paid a fee. The extent and type of diversification that exists in each asset class is shown in more detail on pages 8-11.

This level of diversification aims to ensure that the performance of the funds is not dependent on any one asset type, sector, geographical region, investment manager or investment style. Removing this dependence aims to produce a smoother investment journey over the longer term.

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# Regular Reviews

ILIM undertake a regular review of Irish Life MAPS, evaluating the current asset and manager allocations to ensure they continue to represent the best of ILIM thinking and capability with respect to achieving their long term risk and performance objectives. The process takes into account the short, medium and long term expected outlook for investment markets with a view to optimising the strategic fund mix. Typically in these reviews, ILIM are looking for opportunities to either enhance risk management and/or increase the expected fund returns. This process involves reviewing investment opportunities such as new managers, asset classes, strategies, geographies, developments in quantitative research and simulating how best to incorporate any prospective changes into the existing funds allowing for the complexity, time, cost and benefit of doing so.

# Rebalancing

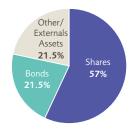
One of the most important risk management tools used by ILIM is quarterly rebalancing of each Irish Life MAPS fund. The example below shows why rebalancing is important and what could happen without it.

### START YEAR 1



We start with this pie-chart, which shows a fund with 50% in shares, 25% in bonds and 25% in other assets/ external managers.

### **START YEAR 2**



If, over the course of a year, shares grew in value by 20%, while bonds and other assets/external managers both fell in value by 10%, then, without rebalancing, the second pie-chart shows the new split of the fund. Here 57% of the fund is now invested in shares.

### **START YEAR 3**



If the same thing happened again, we would end up with nearly 2/3 of the fund invested in shares. This fund mix may no longer be suitable for someone who originally chose an allocation with 50% in shares, 25% in bonds and 25% in cash.

This change in asset split can be avoided by regularly rebalancing the fund to ensure that it stays in line with its intended split. ILIM rebalances each of the Multi Asset Portfolio Funds on a quarterly basis and this means that each fund will not drift over time. This means that you don't have to worry about a fund becoming a higher risk rating than the one originally invested in.

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# Global Low Volatility Shares

### **STRATEGY**

The strategy aims to deliver share market returns with lower risk:

- Focus is on minimising maximum losses
- · Low Volatility Shares were extended to include Low Volatility Emerging Market Shares earlier this year.
- Stock selection is based on a range of low risk factors and defensive qualities.

### **HOW IT WORKS**

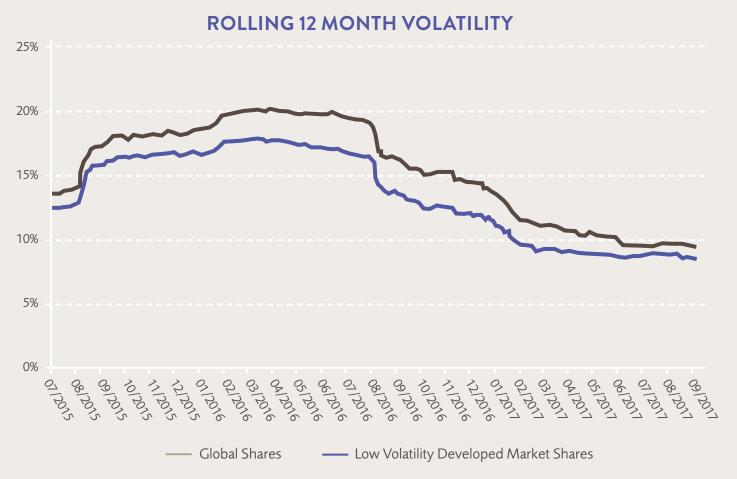
ILIM have identified key factors (valuation, risk, technical, quality and dividend) which when combined with defensive sector allocations minimise the total potential fall experienced by shares over time.

### **KEY BENEFITS**

This strategy aims to deliver the following key benefits:

- Reduce the peak-to-trough losses in periods of market stress
- Manage volatility
- Maintain share market returns over the longer term.

The chart below illustrates the reduced annualised 12-month rolling volatility of the Low Volatility Developed Market Shares Strategy compared to the Global Shares portfolio.



The information above is correct as at 30 September 2017. Performance is gross of taxes and charges.

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# Dynamic Share to Cash Model



Each Irish Life MAPS fund uses the innovative Dynamic Share to Cash (DSC) model on the Global Shares portion of each MAP Fund. The DSC is a quantitative model that has been developed by ILIM and it uses a number of factors across three broad categories.

The DSC signal is at 1.12 at the end of September 2017, on a scale of +2 to -2. DSC is fully invested in shares above zero. Below zero DSC moves progressively from shares to cash and is fully in cash at -2.

The DSC aims to reduce the amount invested in shares and increase the amount in cash when it identifies greater potential for stock market falls.

The factors include:

| FACTOR<br>CATEGORY       | MARKET MOMENTUM   | VALUATIONS  | GLOBAL<br>MACROECONOMICS  |
|--------------------------|---|---|---|
| OBJECTIVE                | Take account of trends in shares  | Take account of long-term valuation of shares   | Take account of the influence of global economics on shares                                       |
| INDIVIDUAL<br>FACTORS    | <ul><li>12-month share market momentum</li><li>200-day moving average</li></ul> | <ul><li>Long-term share values</li><li>Earnings quality</li><li>Earnings yield</li><li>Earnings Revisions</li></ul> | <ul><li>Real GDP growth rate</li><li>Bond yield curve slope</li><li>Energy price levels</li></ul> |
| QUARTER 3<br>2017 UPDATE | Decreased slightly over the quarter, as 12 month price momentum weakened.       | Decreased slightly over<br>the quarter, coming from<br>an increase in valuation<br>multiples.                       | Decreased slightly over the quarter, driven by an increase in energy prices over the period.      |
| QUARTER 3 2017 INDICATOR | +   | +   | +   |

Based on how these factors move over time, the DSC will decide how much of each Irish Life MAPS fund to invest in Global Shares and how much to invest in cash. ILIM will regularly monitor and review these factors.

# **Currency Hedging**

ILIM manage the risk of exposure to foreign currencies in Irish Life MAPS by fully or partly hedging any exposure. This risk management process was further enhanced by the development of a fully systematic currency hedging process. This will operate on each of the Irish Life MAP funds.

### **STRATEGY**

The strategy aims to reduce the risk of experiencing negative returns from foreign currency moves. This is achieved by hedging non-euro currency exposure when it is beneficial to do so.

### **HOW IT WORKS**

ILIM use a systematic approach to identify key factors (valuations, market momentum etc) that when combined aim to indicate when it is beneficial to hedge foreign currency exposure.

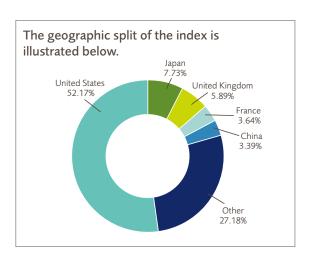
### **KEY BENEFITS**

This strategy aims to reduce the volatility of the returns in shares, reduce the potential losses from negative moves in foreign currency and reduce peak-to-trough losses over time.

Shares

### **GLOBAL SHARES**

- ILIM track the performance of a large global share index.
- There are nearly 2,500 individual company shares represented which operate in 11 different sectors.
- We use the DSC model (explained on page 7) on Global Shares.
- Global Shares includes about 10% in Emerging Market Shares.
- For the percentage of Global Shares in each Irish Life MAPS fund, see the latest factsheet on www.irishlife.ie.



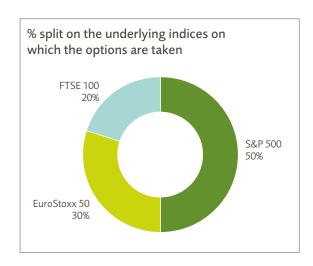
### **GLOBAL LOW VOLATILITY SHARES**

- Using a detailed, quantitative strategy, ILIM choose shares from a broad global share index which not only have shown lower volatility in the past but which are also screened for other indicators such as value, for example.
- ILIM choose over 200 shares to make up their Low Volatility Shares fund.
- For more information on our Low Volatility Shares, see page 6. For the percentage of Low Volatility Shares in each Irish Life MAPS fund, see the latest factsheet on www.irishlife.ie.



### **OPTION STRATEGY**

- The option strategy further diversifies the allocation to shares (in addition to DSC and Low Volatility Shares)
- The option strategy currently sells put options on a monthly basis which provides some downside protection if markets fall and for which the funds get paid a fee.



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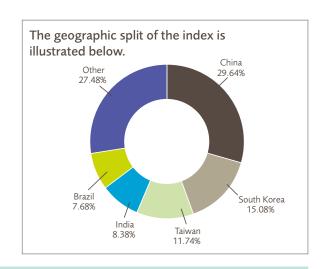
# ASSET CLASSES EXPLAINED CONTINUED...



### Shares continued

### **EMERGING MARKET SHARES**

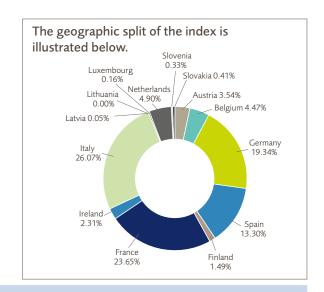
- ILIM track the performance of a broad Emerging Markets share index to provide exposure to Emerging Market Shares.
- Emerging Market Shares include over 800 individual companies which operate in 24 different markets.
- For the percentage of Emerging Market Shares in each Irish Life MAPS fund, see the latest factsheet on www.irishlife.ie.



# Bonds

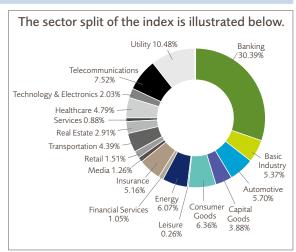
### **GOVERNMENT BONDS**

- ILIM currently track the performance of a recognised and leading government bond index to provide exposure to government bonds.
- Within the bond allocation, ILIM choose the proportion to invest in government bonds and have discretion in relation to the index which is tracked.



### **CORPORATE BONDS**

- ILIM currently track the performance of a recognised and leading corporate bond index to provide exposure to corporate bonds.
- Within the bond allocation, ILIM choose the proportion to invest in corporate bonds and have discretion in relation to the index which is tracked.



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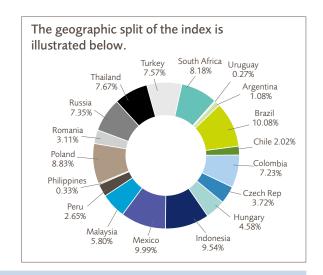
Warning: If you invest in this fund you may lose some or all of the money you invest.



### **Bond** continued

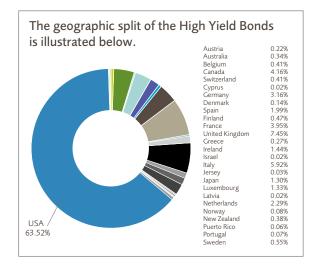
### **EMERGING MARKET DEBT**

- ILIM currently track the performance of a recognised and leading emerging market bond index to provide exposure to emerging market bonds.
- Within the bond allocation, ILIM choose the proportion to invest in emerging market bonds and have discretion in relation to the index which is tracked.



### **HIGH YIELD BONDS**

- ILIM track the performance of a recognised and leading high yield bond index to provide exposure to global high yield bonds.
- The High Yield Bond allocation is currently sub-advised by an external manager.



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# ASSET CLASSES EXPLAINED CONTINUED...

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# External Managers/Alternatives

ILIM recognise the need to incorporate alternative strategies within the Irish Life MAPS funds and have an active pipeline of external managers they monitor on an on-going basis. There were some changes to the External Managers in quarter 3 2017 – the replacement of the Morgan Stanley MS Diversified Alpha Plus Fund and JP Morgan Systematic Alpha Fund with new allocations to GMO Systematic Global Markets (SGM) Fund and BlackRock Style Advantage Fund.

There is now access to seven leading global real and absolute return managers with ten funds through each Irish Life MAPS fund's External Managers / Alternatives portion. The percentage allocated to External Managers / Alternatives varies for each Irish Life MAPS fund and the latest factsheet on www. irishlife.ie will show this percentage.

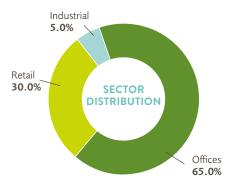
Within this percentage, the target split across the seven managers is shown as well as details of the managers themselves and the funds we invest in. ILIM actively look for managers that can bring diverse performance at the right price. They monitor this performance on an ongoing basis and may choose to change the allocation to external managers or the target allocation within the External Manager allocation. They may also choose to replace, add or remove External Managers as opportunities arise and market conditions change.

| Manager  | Assets<br>Managed                        | Fund Name  |  |
|--|--|--|--|
| GMO  | \$77 billion                             | GMO Real Return<br>Fund                                      |  |
| Source www.gmo.com   | (30 June 2017)                           | Systematic Global<br>Markets (SGM) Fund                      |  |
| <b>Putnam</b><br>Source www.putnam.com                         | <b>\$168 billion</b> (30 September 2017) | Putnam Multi<br>Asset Absolute<br>Return Strategy<br>(MAARS) |  |
| AQR<br>Source www.agr.com                                      | <b>\$207 billion</b> (30 September 2017) | AQR Global Risk<br>Parity                                    |  |
| Source mmaqueem  |  | AQR Style Premia   |  |
| Blackrock  | \$5.7 trillion                           | BlackRock FIGO Fund  |  |
| Source www.blackrock.com                                       | (30 June 2017)                           | BlackRock Style<br>Advantage Fund                            |  |
| PIMCO<br>Source www.pimco.com                                  | <b>\$1.61 trillion</b> (30 June 2017)    | PIMCO Income Fund  |  |
| <b>Dunn Capital Management</b><br>Source www.montlakeucits.com | <b>\$3.2 billion</b> (31 March 2017)     | Montlake Dunn WMA  |  |
| MidOcean<br>Source www.midoceanpartners.com                    | <b>\$5.3 billion</b> (31 March 2017)     | DB Platinum<br>MidOcean Fund                                 |  |

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# Property

Each Irish Life MAPs fund currently has an allocation to ILIM's Pension Exempt Property fund. Information on the property allocation at the end of September 2017 is shown below:



# TOP FIVE HOLDINGS PROPERTY 2 Grand Canal Square, Dublin 1 Georges Quay, Dublin Stephen Court, St Stephens Green, Dublin 24-26 City Quay, Dublin Offices City Gate, Mahon, Co Cork

TOTAL VALUE



The portfolio comprises of:

- 73 individual property assets
- Leased to over 300 tenants
- Broad mix of commercial property

   with exposure to offices, retail

   and industrial properties.

The information is correct as at 30 September 2017. For the percentage of property invested in each MAP Fund, please see the factsheet on www.irishlife.ie.

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PENSIONS
INVESTMENTS
LIFE INSURANCE



# ILIM'S CREDENTIALS

ILIM have designed the Irish Life MAPS funds. They have also developed and tested the DSC model and will expertly manage it over time.

ILIM currently manage over €65.7 billion of assets (as at 30/06/2017), including private investors and leading Irish and international companies. By investing in one of these funds through an Irish Life pension, savings or investment plan you will benefit from their experience and expertise.

ILIM are MULTI-AWARD WINNERS. They're recognised internationally for their expertise, innovation and track record:

- INVESTMENT MANAGER OF THE YEAR, three years running at the Irish Pension Awards 2013-2015. PASSIVE MANAGER OF THE YEAR at the Irish Pension Awards 2016.
- DOUBLE WINNER at European Pension Awards 2014 BEST EQUITY and BEST PASSIVE MANAGER.
- Only European Investment Manager to win twice at those awards.
- BEST INVESTMENT FUND PROVIDER at Longboat Analytics Financial Services Awards 2017 and BEST INNOVATION IN FINANCIAL SERVICES AWARD at Longboat Analytics ('Moneymate') Financial Services Awards 2016.

# IRISH LIFE MAPS®:

- > Choice through a range of funds
- > Generating smoother, long-term returns
- > Managing risk to stay on track
- > Delivering peace of mind
- > Available across our pension, investment and savings plans

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For more details please see www.irishlife.ie/investments or contact your financial broker or financial adviser.

Irish Life Investment Managers Limited is regulated by the Central Bank of Ireland. Irish Life Assurance plc is regulated by the Central Bank of Ireland.

